

WORK SHEET FOR STEPWISE CALCULATION
(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

COMPANY Jake L. Hamon LEASE Union State WELL NO. 1 DATE 8/1/66

LOCATION: Unit H Section 30 Township 20 S Range 36 E

L 11178 H 11178 L/H 1.000 G .701 % CO₂ % N₂ % H₂S

$$d = \frac{2.441}{881.526} \cdot \frac{F_1}{Q_m} = .010763 \cdot \frac{6.235}{M^2_{std} (L/H) (F_1 Q_m)^2} = .004504$$

$$P = \frac{854.938}{1031.1} = 1031.1 \quad P_w = \frac{3697.2}{1031.1} = 2666.1$$

$$P_{CT} = \frac{668}{392}$$

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	H		11178	5589		0						
2	GH		7835.78	3917.89		0						
3	37.5GH		293,842	146,921		0						
4	P _c or P _n		3697.2	3174.2	3178.2	2658.2	2667.2	2666.2				
5	P _f		5.53	4.75	4.76	3.98	3.99	3.99				
6	T		609	576.5	576.5	544	544	544				
7	T _f		1.55	1.47	1.47	1.39	1.39	1.39				
8	Z		.853	.784	.785	.709	.710	.710				
9	P/Z P/Z	4-8	4334.3	4048.7	4048.7	3749.2	3756.6	3755.2				
10	P/TZ	9-6	7.1171	7.0229	7.0229	6.8919	6.9055	6.9029				
11	(P/TZ) 2/1000	(10) 2/1000										
12	L/H(F ₁ Q _m) ²											
13		I ₁ + I ₂										
14	I _n	I ₀ -I ₃	140.507	142.391	142.391	145.098	144.812	144.867				
15	M=P _n -P _{n-1}			523	519	520	511	512				
16	N=I _n +I _{n-1}			282.898	282.898	287.489	287.203	287.258				
17	M x N	I ₅ x I ₆			146,824			147,076				
18	Σ(M x N)	Σ I ₇	293,842		147,018							